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**ANALOG BUFFER MEMORY FOR HIGH-SPEED
DIGITAL IMAGE CAPTURE**

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5

ABSTRACT OF THE DISCLOSURE

A digital imaging system uses a high density, high speed analog/multi-level memory to temporarily store image data at high rates for extended periods of time. A portion of the stored data is transmitted for image processing and compression. When image processing and compression on the data are completed, another portion of the stored data is transmitted for processing. As a result, high speed image capture for extended periods is possible because the processing speed of the image processing and compression no longer limit the time required between high speed bursts or the length of a high speed burst.